

GREATER YELLOWSTONE PUBLIC LANDS

A Century of Discovery, Hard Lessons, and Bright Prospects

October 17–19, 2005
Mammoth Hot Springs Hotel
Yellowstone National Park, Wyoming



The Eighth Biennial Scientific Conference on the Greater Yellowstone Ecosystem will focus on public lands issues in Greater Yellowstone. The goal of the conference is to generate, in non-technical language, a publicly-oriented discussion of the mandates, “cultures,” relationships, and accomplishments of the numerous local, state, and federal management agencies responsible for Greater Yellowstone’s public lands. Are the “conflicting mandates” of these agencies really the problem they’ve been portrayed to be? What are the prospects for long-term planning, scientific information exchange, sustainable recreation, and community prosperity? What new social and ecologic paradigms and perspectives may serve the needs of the region?

Preliminary Agenda

MONDAY, OCTOBER 17

12:30–2:30

REC HALL

Screening of U.S. Forest Service film,
The Greatest Good

3:00–3:15

REC HALL

Introduction and Welcome

3:15–5:00

REC HALL

**Biocomplexity on Yellowstone's Northern Range:
Human Impacts and Natural Ecosystems**

Panel: *David Bennett, University of Iowa; David McGinnis, Montana State University-Billings; Duncan Patten, Montana State University; William Travis, University of Colorado at Boulder; and Mark Williams, University of Colorado at Boulder*

MAP ROOM

Evolution of GYE Resource Policy and Perception

**The Death of Environmentalism and Shift Toward
Community-Created Conservation**
Tom Darin, Jackson Hole Conservation Alliance

**Yellowstone, the Winter Wonderland: Contested
Landscape, Conflicting Meanings**
Michael Yochim, Yellowstone National Park

**Progressivism Comes to Yellowstone: Theodore
Roosevelt and Professional Land Management Agencies
in the Yellowstone Ecosystem**
Jeremy Johnston, Northwest College

**Greater Yellowstone Bison Distribution and Abundance
in the Early Historical Period**
Paul Schullery, Yellowstone National Park

6:30–7:30

MAP ROOM

Welcome Reception

7:30–8:30

REC HALL

Opening Keynote

Dale Bosworth, Chief, U.S. Forest Service

TUESDAY, OCTOBER 18

8:00–8:45

REC HALL

Morning Keynote

Monica Turner, University of Wisconsin-Madison

8:45–10:00

REC HALL

Remote Sensing and Landscape Analysis

**Ecological Drivers and the Importance of Pristine
Ecosystems**
*Robert Crabtree, Yellowstone Ecological Research
Center*

**Remote Sensing as a Tool to Observe Rock Glaciers in
the Greater Yellowstone Ecosystem**
Ian Fairweather, HyPerspectives, Inc.

**The Ability of Airborne LiDAR to Measure Tree
Characteristics Across Large Spatial Scales**
Brian Seneker, HyPerspectives, Inc.

MAP ROOM

Water Resources and Management

**Recreation on the Upper Yellowstone River: A Study of
Use and Place**
Norma Nickerson, University of Montana

**A Century of Fisheries Management in Grand Teton
National Park**
*Susan O'Ney, Grand Teton National Park, and Rob
Gipson, Wyoming Fish and Game*

**Watershed Management Strategy for the Greater
Yellowstone Area**
Greg Bevenger, Shoshone National Forest

10:15–12:00

REC HALL

**The Greater Yellowstone Coordinating Committee:
Challenges of Today**

Panel: *Becky Aus, Forest Supervisor, Shoshone National
Forest; Robert Barbee, former superintendent,
Yellowstone National Park; Barry Reiswig, Refuge
Manager, National Elk Refuge; Mary Gibson Scott,
Superintendent, Grand Teton National Park; and Jack
Troyer, Regional Forester, USFS Intermountain Region*

Preliminary Agenda

12:00–1:30

MAMMOTH HOTEL DINING ROOM

Superintendent's International Luncheon and Lecture
Harvey Locke, Canadian Parks and Wilderness Society

1:30–2:45

REC HALL

Mammals I: Spatial and Energy Requirements

Predicting Whitebark Pine Cone Production for Grizzly Bear Management
Eliot McIntire, University of Montana

Temporal, Spatial, and Environmental Influences on the Demographics of Grizzly Bears in the Greater Yellowstone Ecosystem
Mark Haroldson, U.S. Geological Survey, Interagency Grizzly Bear Study Team

Wolf Survival and Public Land: Do Wolves Have a Chance Outside of Reserves?
Douglas W. Smith, Yellowstone National Park

MAP ROOM

Landscapes Viewed in Context

Air Quality Assessment of the Greater Yellowstone Area
Mark Story, Gallatin National Forest

The Geologic Basis of Management Agency Diversity in the Greater Yellowstone Ecosystem
Kenneth Pierce, U.S. Geological Survey (ret.)

From Microscope to Telescope: Viewing Yellowstone from a Global Perspective
Judith Meyer, Missouri State University

3:00–4:45

REC HALL

Fire in the Greater Yellowstone Ecosystem: Coupling Social Expectations with Ecological Realities

Panel: *Dan Tinker, University of Wyoming; William Romme, Colorado State University; Randy Walsh, Colorado State University; and Nathan Korb, The Nature Conservancy*

MAP ROOM

The Big Picture: Cross-Boundary Issues in the GYE

Yellowstone: A Model for Ecosystem Research
Michael Foos, Indiana University East

Prioritization of Conservation Areas in the Greater Yellowstone Ecosystem
Holly Copeland, The Nature Conservancy

Integrating Natural Resource Monitoring Across State and Federal Agencies

Cathie Jean, National Park Service

Regional Effects on the Yellowstone Mammalian Species Pool

Judsen Bruzgul, Stanford University

6:00–7:00

MAP ROOM

Evening Reception/Poster Session

7:00

MAMMOTH HOTEL DINING ROOM

A. Starker Leopold Banquet and Lecture
Jack Ward Thomas, University of Montana

WEDNESDAY, OCTOBER 19

8:00–8:45

REC HALL

Morning Keynote

Karen Wade, National Park Service (ret.)

8:45–10:00

REC HALL

Mammals II:

Assessment and Management Techniques

Wildlife at a Crossroads: Energy Development in the Upper Green River Basin
Janice Thomson, The Wilderness Society

Establishing a Spatial Framework and Determining an Effective Geographic Scale for Wolverine Conservation in Greater Yellowstone
Robert Inman, Wildlife Conservation Society

Carnivore Conservation and Search Dogs: The Value of a Novel, Non-Invasive Technique in the GYE
Jon Beckmann, Wildlife Conservation Society

MAP ROOM

Perspectives on the Past:

Human Influences on GYE Wildlife

Archeological Investigations of Prehistoric Hunting Blinds for Bighorn Sheep in Winter Range
Walt Allen, Gallatin National Forest

Preliminary Agenda

Ancient Corridors: The Trapper's Point Story of the Prehistoric Path of the Pronghorn

Meredith Taylor, Wyoming Outdoor Council

Greater Yellowstone Pronghorn: A Nineteenth Century Historical Context

Paul Schullery, Yellowstone National Park

10:15–12:00

REC HALL

Human Economics and Values in the GYE

We Are From Mars, They Are From Earth: Getting What We Want From Our Relationships with Wild Animals

Mary Ann Franke, Yellowstone National Park

The Montana Challenge: Remaining the Last Best Place for Fish and Wildlife in a Changing West

Cindy Swanson, U.S. Forest Service

The Role of Conservation in Economic Development

Ray Rasker, Sonoran Institute

Integrating Landscape-Scale Economic and Ecological Models in the Greater Yellowstone Area

John Duffield, University of Montana

MAP ROOM

Fire Ecology: Biotic and Abiotic Factors

Insect–Fire Interactions in Yellowstone National Park

Heather Lynch, Harvard University

Linking the Fire Environment to Long-Term Fire Effects

Malcolm McFarland, Grand Teton National Park

Analysis of 1988 Post-Fire Forest Conditions in Yellowstone National Park from the 2002 Forest Inventory and Analysis of Wyoming

Mike Thompson, U.S. Forest Service

12:00–1:30

MAMMOTH HOTEL DINING ROOM

Aubrey L. Haines Luncheon and Lecture

Sarah E. Boehme, Whitney Gallery of Western Art

1:30–3:15

REC HALL

Trophic Cascade Research: Perspectives

What Did They Eat?: Browse History of Aspen in Northern Yellowstone

Roy Renkin, Yellowstone National Park

Cascading Trophic-Level Effects of the Reintroduction of Wolves into Yellowstone National Park on Elk Populations and Willow Communities

Francis Singer, U.S. Geological Survey

An Alternative Explanation for Willow Height Increase Following Wolf Reintroduction

Don Despain, U.S. Geological Survey

Mechanisms for a Trophic Cascade: Hypothesis Testing in Yellowstone's Wolf–Elk–Willow Food Chain

Nathan Varley, University of Alberta

MAP ROOM

Native Plant Communities:

Monitoring, Management, and Restoration

Through the Historical Lens: An Examination of Compositional Change in Yellowstone's Bunchgrass Communities (1958–2002)

Pamela Sikkink, University of Montana

Restoring Native Vegetation on Ungulate Winter Range in and Near Yellowstone National Park

Mary Hektner, Yellowstone National Park

Multi-Park Invasive Plant Monitoring Protocols with Applications to the Greater Yellowstone Ecosystem

Elizabeth Crowe, Montana State University

Biological Control of Dalmatian Toadflax: A Sustainable Weed Control Option for the Greater Yellowstone Area?

Marjolein Schat, Montana State University

3:30–4:30

REC HALL

Summary Keynote

Richard Knight, Colorado State University

Registration Form
GREATER YELLOWSTONE PUBLIC LANDS CONFERENCE

October 17-19, 2005, Mammoth Hot Springs, Wyoming

Conference Fees

Conference Option A

Includes tickets to the opening reception, luncheons, and banquet, as well as admission to all sessions.

	<i>Before Sept. 16</i>	<i>After Sept. 16</i>
General	\$200	\$225
Program participant*	\$175	\$200
Student	\$125	\$150
One day only	\$125	\$150
Meals only	\$75	\$100

Conference Option B

Includes admission to opening reception, paper sessions, roundtables and displays only (no meals).

	<i>Before Sept. 16</i>	<i>After Sept. 16</i>
General	\$150	\$175
Program participant*	\$125	\$150
Student	\$75	\$100
One day only	\$75	\$100

*Paper/poster presenters, session moderators, conference staff

Lodging

Rooms with private bath: \$106.92/night, tax included (based on 2-person occupancy, tax rate subject to change)

Rooms without bath: \$81/night, tax included (based on 2-person occupancy, tax rate subject to change)

Please register online at: <www.nps.gov/yell/technical/conference2005>

or mail or fax this completed form and payment to:

GYE Public Lands Conference

Xanterra Reservations Department

Attn: Special Reservations

P.O. Box 165

Yellowstone National Park, WY 82190

Phone: (307) 344-5566; Fax: (307) 344-7456; E-mail: sr@xanterra.com

Registration package (choose one)

Option A

General _____ person/s × \$ _____ = \$ _____
Program part.* _____ person/s × \$ _____ = \$ _____
Student _____ person/s × \$ _____ = \$ _____
Meals only _____ person/s × \$ _____ = \$ _____
One day _____ person/s × \$ _____ = \$ _____
Vegetarian meals? yes, for _____ person/s.

Option B

General _____ person/s × \$ _____ = \$ _____
Program part.* _____ person/s × \$ _____ = \$ _____
Student _____ person/s × \$ _____ = \$ _____
One day _____ person/s × \$ _____ = \$ _____

Lodging: nights needed

October 16 _____ Oct. 17 _____ Oct. 18 _____ Oct. 19 _____
Room with bath \$ _____ × _____ nights = \$ _____
without bath \$ _____ × _____ nights = \$ _____
Extra person/s \$10 × _____ person/s = \$ _____

TOTAL \$ _____

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Expiration Date _____

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Name on Badge _____

Affiliation on Badge _____

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State/Province _____

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Registration payment, cancellation, and refund information: Payment of registration fees must be made at the time of booking. Registration fees will be refunded only if cancellation is made BEFORE September 16. Requests for registration fee refunds should be made in writing to Xanterra Special Reservations.

Lodging payment, cancellation, and refund information: To confirm your lodging at Mammoth Hot Springs Hotel, a deposit payment (first night's cost) must be received by October 1 or reservation will be cancelled. If you pay with a credit card, the deposit will be charged on October 1. Lodging cancellations must be made BEFORE October 1. Requests for lodging deposit refunds should be made in writing to Xanterra Special Reservations.

Featured Speakers

A. Starker Leopold Lecture

Jack Ward Thomas, Ph.D., holds a B.S. in Wildlife Biology from Texas A&M University, an M.S. in Wildlife Science from West Virginia University, and an M.F. and Ph.D. in Forestry from the University of Massachusetts. He worked 10 years for the Texas Parks and Wildlife Department, and 30 years for the U.S. Forest Service (27 years as a research scientist and 3 years as Chief). He is currently the Boone and Crockett Professor of Conservation at the University of Montana, where he has taught for seven years. He has authored or co-authored over 400 publications in areas including ecology, conservation biology, forestry, range management, threatened species management, ethics, philosophy, economics, fish and wildlife management, and natural resource planning. He has received numerous awards, including the Aldo Leopold Medal from The Wildlife Society, the Award for Distinguished Service from the U.S. Department of Agriculture, Fellow of the Society of American Foresters, the Gulf Oil Conservation Award, Distinguished Achievement Award of the Society for Conservation Biology, and honorary doctorates from Lewis and Clark College and Lakehead University (Canada).

Superintendent's International Lecture

Harvey Locke serves as strategic advisor for the Yellowstone-to-Yukon Conservation Initiative, which he helped create. He is also a senior advisor to several non-profit environmental organizations, including the Canadian Parks and Wilderness Society, Tides Canada Foundation, Canadian Boreal Initiative, and The Wildlands Project. He is a member of the World Commission on Protected Areas and the executive committee of the Eighth World Wilderness Congress, and has served as president of the Alberta Liberal Party. In 1999, Time Canada magazine named him one of Canada's leaders for the twenty-first century.

Aubrey L. Haines Lecture

Sarah E. Boehme, Ph.D., has served as the John S. Bugas Curator, Whitney Gallery of Western Art, at the Buffalo Bill Historical Center in Cody, Wyoming, since 1986. She earned her B.A. from Sarah Lawrence College and holds an M.A. and Ph.D. in History of Art from Bryn Mawr College. Dr. Boehme has authored or co-authored several books and catalogues on Western American art, and has lectured extensively on topics in western art and artists including Thomas Moran, Frederic Remington, and Charles M. Russell. She serves on the Frederic Remington examination committee.

Keynote Lectures

Dale N. Bosworth became the fifteenth Chief of the U.S. Forest Service on April 12, 2001. Dale was born in Altadena, California, and grew up there in a Forest Service family. He began his career in 1966, as a forester. He worked as a line officer on several national forests and in planning positions in the West. He worked in the Washington Office as Deputy

Director of Forest Management from 1990 through 1992 before being assigned to the field as a Deputy Regional Forester. He was the Regional Forester for the Intermountain Region headquartered in Ogden, Utah. Prior to his selection as Chief, he served as Regional Forester for the Northern Region, headquartered in Missoula, Montana. Dale and his wife, Carma, have two grown children, Kristy and Neil, a daughter-in-law, Amy, and one grandchild, Reid.

Richard Knight, Ph.D., is a Professor of Wildlife Conservation at Colorado State University. He is interested in the ecological effects associated with the conversion of the Old West to a New West. Before becoming an academic, he worked for the Washington Department of Game, developing the nongame wildlife program. Dr. Knight sits on a number of boards, including the Colorado Cattlemen's Agricultural Land Trust and The Natural Resources Law Center. He is an assigning editor for the journal *Conservation Biology*, and has published several books, including: *A New Century for Natural Resources Management* (1995), *Stewardship Across Boundaries* (1998), *Ranching West of the 100th Meridian* (2002), *Aldo Leopold and the Ecological Conscience* (2002), and *Ecosystem Management: An Adaptive, Community-Based Approach* (2002).

Monica G. Turner, Ph.D., is a Professor of Zoology at the University of Wisconsin-Madison. Dr. Turner grew up in New York, and first visited Yellowstone in 1978, when she worked at Old Faithful as a ranger-naturalist. As a graduate student, she worked as a summer intern with the NPS in Washington, D.C., and conducted her doctoral research in Virgin Islands National Park and Cumberland Island National Seashore. She has studied fire, vegetation, and ecosystem processes in Yellowstone since 1988, and is also studying elk movement and habitat use. She was a member of the National Research Council committee that evaluated ungulate management in Yellowstone (*Ungulate Dynamics on Yellowstone's Northern Range*, 2002, National Academy Press). Currently, she is co-editor-in-chief of *Ecosystems*, an editorial board member for *BioScience*, and a member of the Rapid Response Team of the Ecological Society of America. She has received awards for distinguished scholarship, and was elected to membership in the National Academy of Sciences in 2004.

Karen Wade retired in 2003 as director of the Intermountain Region for the National Park Service. Her NPS career included assignments at Mesa Verde National Park, Fort McHenry National Monument and Historic Shrine, Guadalupe Mountains National Park, Wrangell-St. Elias National Park and Preserve, and Great Smoky Mountains National Park. Karen serves on the board of the Sonoran Institute, and helped found Earth Care Connection, USA, a mentoring organization for women in conservation. She was part of the team that developed the NPS's Natural Resource Challenge.

Information

Reservations and Facilities

The conference will be held at the historic Mammoth Hot Springs Hotel, at park headquarters. The Mammoth Hotel and Restaurant will be open for conference activities only. Camping is available on a first-come, first-served basis at the Mammoth Campground. Alternative camping, lodging, and dining facilities are available five miles from Mammoth in Gardiner, Montana.

Dining

The Mammoth Hot Springs Hotel and Restaurant will close to the public on Monday, October 17. After that, the hotel and restaurant will be open only to registered conference participants choosing Option A. For attendees choosing Option B, the nearest restaurants, grocery, and hotel accommodations are located five miles north of Mammoth in Gardiner, Montana.

Poster Session

Posters will be displayed in the Mammoth Hotel Lobby. Set-up will begin at 1:00 on Monday, October 17. Take-down must be completed by 3:00 on Wednesday, October 19.

Sponsors of this special event include:

Yellowstone Association

Yellowstone National Park

Draper Museum of Natural History, Buffalo Bill Historical Center

Grand Teton National Park

UW-NPS, Research Office, and Ruckelshaus Institute, University of Wyoming

Rocky Mountains Cooperative Ecosystem Studies Unit

Greater Yellowstone Coordinating Committee:

National Park Service

(Grand Teton NP, John D. Rockefeller, Jr., Memorial Parkway, Yellowstone NP)

U.S. Fish and Wildlife Service

(National Elk Refuge, Red Rock Lakes National Wildlife Refuge)

U.S. Forest Service

(Beaverhead-Deerlodge NF, Bridger-Teton NF, Caribou-Targhee NF,

Custer NF, Gallatin NF, Shoshone NF)

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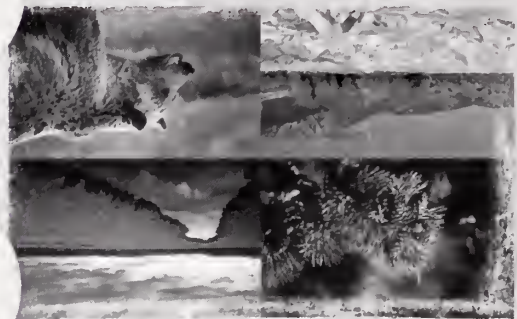
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Mr. Harvey Locke
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Dr. Sarah E. Boehme
Whitney Gallery of Western Art
Mr. Dale Bosworth
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Dr. Richard Knight
Colorado State University
Dr. Monica Turner
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Ms. Karen Wade
former Intermountain Region Director,
National Park Service